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1.

Application No. 09/676,249

**NOTICE TO COMPLY WITH REQUIREMENTS FOR PATENT APPLICATIONS CONTAINING  
NUCLEOTIDE SEQUENCE AND/OR AMINO ACID SEQUENCE DISCLOSURES**

The nucleotide and/or amino acid sequence disclosure contained in this application does not comply with the requirements for such a disclosure as set forth in 37 CAR §1.821 - §1.825 for the following reasons(s):

- ☐ 1. This application clearly fails to comply with the requirements of 37 CAR §1.821 - §1.825. Applicant's attention is directed to these regulations, published at 1114 OG 29, May 15, 1990, and at 55 FR 18230, May 1, 1990.
- ☐ 2. This application does not contain, as a separate part of the disclosure on paper copy, a "Sequence Listing" as required by 37 CAR §1.821(c).
- ☐ 3. A copy of the "Sequence Listing" in computer readable form has not been submitted as required by 37 CAR §1.821(e).
- ☒ 4. A copy of the "Sequence Listing" in computer readable form has been submitted. However, the content of the computer readable form does not comply with the requirements of 37 CAR §1.822 and/or §1.823, as indicated on the attached copy of the marked-up "Raw Sequence Listing".
- ☐ 5. The computer readable form that has been filed with this application has been found to be damaged and/or unreadable as indicated on the attached CRF Diskette Problem Report. A substitute computer readable form must be submitted as required by 37 CAR §1.825(d).
- ☐ 6. The paper copy of the "Sequence Listing" is not the same as the computer readable form of the "Sequence Listing" as required by 37 CAR §1.821(e).
- ☐ 7. Other: \_\_\_\_\_

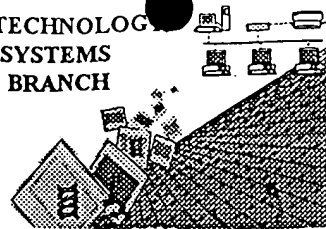
**APPLICANT MUST PROVIDE:**

- ☒ An initial or substitute computer readable form (CRF) copy of the "Sequence Listing".
- ☒ An initial or substitute paper copy of the "Sequence Listing", as were as an amendment directing its entry into the specification.
- ☒ A statement that the content of the paper and computer readable copies are the same and, where applicable, include no new matter, as required by 37 CAR §1.821(e) or §1.821(f) or §1.821(g) or §1.825(b) or §1.825(d).

**FOR QUESTIONS REGARDING COMPLIANCE WITH THESE REQUIREMENTS, PLEASE CONTACT:**

For Rules Interpretation, call (703) 308-1123  
For CRF Submission help, call (703)308-4212  
For Patent Software help, call (703) 557-0400

**PLEASE RETURN A COPY OF THIS NOTICE WITH YOUR RESPONSE.**



## RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/676,249B  
Source: 1600  
Date Processed by STIC: 2/12/2003

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.

PATENTIN 2.1 e-mail help: [patin21help@uspto.gov](mailto:patin21help@uspto.gov) or phone 703-306-4119 (R. Wax)

PATENTIN 3.0 e-mail help: [patin3help@uspto.gov](mailto:patin3help@uspto.gov) or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 3.1 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/ebc/efs/downloads/documents.htm>> , EFS Submission User Manual- ePAVE)
2. U.S. Postal Service: U.S. Patent and Trademark Office, Box Sequence, P.O. Box 2327, Arlington, VA 22202
3. Hand Carry directly to:  
U.S. Patent and Trademark Office, Technology Center 1600, Reception Area, 7<sup>th</sup> Floor, Examiner Name, Sequence Information, Crystal Mall One, 1911 South Clark Street, Arlington, VA 22202  
Or  
U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202
4. Federal Express, United Parcel Service, or other delivery service to: U.S. Patent and Trademark Office, Box Sequence, Room 1B03-Mailroom, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202



1600

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/676,249B

DATE: 02/12/2003

TIME: 10:34:25

Input Set : A:\Pc105551.app

Output Set: N:\CRF4\02112003\I676249B.raw

3 <110> APPLICANT: King, Kendall W  
4 Madura, Rebecca A  
5 Rosey, Everett L  
7 <120> TITLE OF INVENTION: NUCLEIC ACIDS AND PROTEINS OF THE MYCOPLASMA PNEUMONIAE  
8 mhp3 GENE AND USES THEREOF  
10 <130> FILE REFERENCE: PC10555A  
12 <140> CURRENT APPLICATION NUMBER: US/09/676,249B  
13 <141> CURRENT FILING DATE: 2000-09-29  
15 <160> NUMBER OF SEQ ID NOS: 42  
17 <170> SOFTWARE: PatentIn Ver. 2.1

## ERRORED SEQUENCES

343 <210> SEQ ID NO: 7  
344 <211> LENGTH: 14  
345 <212> TYPE: PRT  
346 <213> ORGANISM: Mycoplasma hyopneumoniae  
348 <400> SEQUENCE: 7  
E--> 349 Ala Gly Xaa Trp Ala Lys Glu Thr Thr Lys Glu Glu Lys Ser  
350 1 5 10

Does Not Comply  
Corrected Diskette Needed

*see p. 2 for error explanation*

VARIABLE LOCATION SUMMARY  
PATENT APPLICATION: US/09/676,249B

DATE: 02/12/2003  
TIME: 10:34:26

Input Set : A:\Pc105551.app  
Output Set: N:\CRF4\02112003\I676249B.raw

Use of n's or Xaa's (NEW RULES):

Use of n's and/or Xaa's have been detected in the Sequence Listing.

Use of <220> to <223> is MANDATORY if n's or Xaa's are present.

in <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.

Seq#:4; Xaa Pos. 417,418,419,420,421,422,423

Seq#:7; Xaa Pos. 3

Seq#:10; N Pos. 9,18,21

Seq#:12; N Pos. 6,9,12,18,21,24

Seq#:14; N Pos. 4,7,10,16,19,22

## VERIFICATION SUMMARY

DATE: 02/12/2003

PATENT APPLICATION: US/09/676,249B

TIME: 10:34:26

Input Set : A:\Pc105551.app

Output Set: N:\CRF4\02112003\I676249B.raw

L:12 M:270 C: Current Application Number differs, Replaced Current Application Number  
L:13 M:271 C: Current Filing Date differs, Replaced Current Filing Date  
L:274 M:258 W: Mandatory Feature missing, <221> Tag not found for SEQ ID#:4  
L:274 M:258 W: Mandatory Feature missing, <222> Tag not found for SEQ ID#:4  
L:274 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:416  
L:349 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:7  
L:394 M:258 W: Mandatory Feature missing, <221> Tag not found for SEQ ID#:10  
L:394 M:258 W: Mandatory Feature missing, <222> Tag not found for SEQ ID#:10  
L:394 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10 after pos.:0  
L:420 M:258 W: Mandatory Feature missing, <221> Tag not found for SEQ ID#:12  
L:420 M:258 W: Mandatory Feature missing, <222> Tag not found for SEQ ID#:12  
L:420 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:0  
L:446 M:258 W: Mandatory Feature missing, <221> Tag not found for SEQ ID#:14  
L:446 M:258 W: Mandatory Feature missing, <222> Tag not found for SEQ ID#:14  
L:446 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14 after pos.:0